

DATA SHEET

# FortiGate® 100E Series

FortiGate 100E, 101E, 100EF and 140E-POE

Next Generation Firewall Secure SD-WAN



The FortiGate 100E series delivers next generation firewall capabilities for mid-sized to large enterprises, with the flexibility to be deployed at the campus or enterprise branch. Protect against cyber threats with security processor powered high performance, security efficacy and deep visibility.

#### Security

- Identifies thousands of applications inside network traffic for deep inspection and granular policy enforcement
- Protects against malware, exploits, and malicious websites in both encrypted and non-encrypted traffic
- Prevent and detect against known and unknown attacks using continuous threat intelligence from Al powered FortiGuard Labs security services

#### **Performance**

- Delivers industry's best threat protection performance and ultra-low latency using purpose built-security processor (SPU) technology
- Provides industry-leading performance and protection for SSL encrypted traffic

#### Certification

- Independently tested and validated best security effectiveness and performance
- Received unparalleled third-party certifications from NSS Labs, ICSA, Virus Bulletin and AV Comparatives

#### **Networking**

- Best of Breed SD-WAN capabilities to enable application steering using WAN path control for high quality of experience
- Delivers extensive routing, switching, wireless controller, high-performance, and scalable IPsec VPN capabilities to consolidate networking and security

#### Management

- Includes management console that's effective, simple to use, and provides comprehensive network automation & visibility.
- Provides Zero Touch Integration with Security Fabric's Single Pane of Glass Management
- Predefined compliance checklist analyzes the deployment and highlights best practices to improve overall security posture

#### **Security Fabric**

- Enables Fortinet and Fabric-ready partners' products to provide broader visibility, integrated end-to-end detection, threat intelligence sharing and automated remediation
- Automatically builds Network Topology visualizations which discover IoT devices and provide complete visibility into Fortinet and Fabric-ready partner products

Firewall	IPS	NGFW	Threat Protection	Interfaces
7.4 Gbps	500 Mbps	360 Mbps	250 Mbps	Multiple GE RJ45, GE SFP Slots   PoE/+ Variants

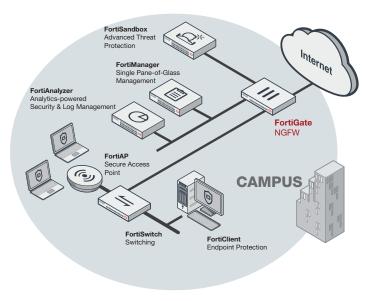
# **Deployment**



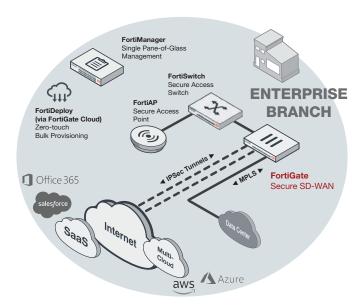
- Reduce complexity by combining threat protection security capabilities into single high-performance network security appliance
- Identify and stop threats with powerful intrusion prevention beyond port and protocol that examines the actual applications in your network traffic
- Delivers industry's highest SSL inspection performance using industry-mandated ciphers while maximizing ROI
- Proactively blocks newly discovered sophisticated attacks in real-time with advanced threat protection



- Secure direct Internet access for Cloud applications for improved latency and reduce WAN cost spending
- High-performance and cost-effective threat protection capabilities
- WAN Path Controller and Link Health Monitoring for better application performance
- Security Processor powered industry's best IPsec VPN and SSL Inspection performance
- Simplified Management and Zero-Touch deployment



FortiGate 100E deployment in Campus (NGFW)



FortiGate 100E deployment in Enterprise Branch (Secure SD-WAN)

## **Hardware**

## FortiGate 100E/101E

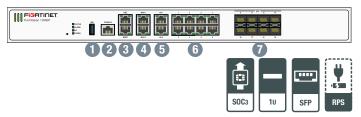




#### Interfaces

- 1. USB Port
- 2. Console Port
- 3. 2x GE RJ45 MGMT/DMZ Ports
- 4. 2x GE RJ45 WAN Ports
- 5. 2x GE RJ45 HA Ports
- 6. 14x GE RJ45 Ports
- 7. 2x GE RJ45/SFP Shared Media Pairs

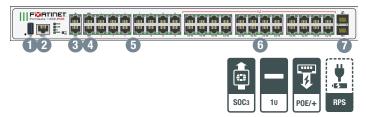
## FortiGate 100EF



#### Interfaces

- 1. USB Port
- 2. Console Port
- 3. 2x GE RJ45 MGMT/DMZ Ports
- 4. 2x GE RJ45 WAN Ports
- 5. 2x GE RJ45 HA Ports
- 6. 8x GE RJ45 Ports
- 7. 8x GE SFP Slots

#### FortiGate 140E-POE



#### Interfaces

- 1. USB Port
- 2. Console Port
- 3. 2x GE RJ45 MGMT/HA Ports
- 4. 2x GE RJ45 WAN Ports
- 5. 14x GE RJ45 Ports
- 6. 24x GE RJ45 POE Ports
- 7. 2x GE SFP DMZ Slots

# Powered by SPU SoC3





- Simplifies appliance design and enables breakthrough performance for smaller networks
- Supports firewall acceleration across all packet sizes for maximum throughput
- Delivers accelerated UTM content processing for superior performance and protection
- Accelerates VPN performance for high speed, secure remote access

# **Redundant Power Supply**

Power supply redundancy is essential in the operation of mission-critical networks. The FortiGate 100E Series offers the option to connect to an external redundant power supply appliance — The FortiRPS 100, designed to increase network availability and uptime.

## **Fortinet Security Fabric**

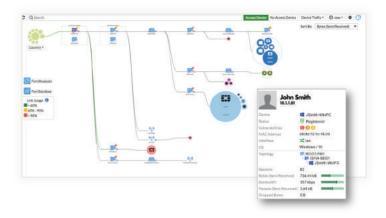
## **Security Fabric**

The Security Fabric delivers broad visibility, integrated Al-driven breach prevention, and automated operations, orchestration, and response across all Fortinet and its ecosystem deployments. It allows security to dynamically expand and adapt as more and more workloads and data are added. Security seamlessly follows and protects data, users, and applications as they move between IoT, devices, and cloud environments throughout the network. All this is ties together under a single pane of glass management for significantly thereby delivering leading security capabilities across your entire environment while also significantly reducing complexity.

FortiGates are the foundation of Security Fabric, expanding security via visibility and control by tightly integrating with other Fortinet security products and Fabric-Ready Partner solutions.

#### **FortiOS**

Control all security and networking capabilities across the entire FortiGate platform with one intuitive operating system. Reduce complexity, costs, and response time with a truly consolidated next- generation security platform.





- A truly consolidated platform with a single OS and pane-of-glass for all security and networking services across all FortiGate platforms.
- Industry-leading protection: NSS Labs Recommended, VB100, AV Comparatives, and ICSA validated security and performance.
   Ability to leverage latest technologies such as deception-based security.
- Control thousands of applications, block the latest exploits, and filter web traffic based on millions of real-time URL ratings in addition to true TLS 1.3 support.
- Prevent, detect, and mitigate advanced attacks automatically in minutes with integrated Al-driven breach prevention and advanced threat protection.
- Fulfil your networking needs with extensive routing, switching, and SD-WAN capabilities along with intent-based segmentation.
- Utilize SPU hardware acceleration to boost security capability performance.

## **Services**



# FortiGuard<sup>™</sup> Security Services

FortiGuard Labs offers real-time intelligence on the threat landscape, delivering comprehensive security updates across the full range of Fortinet's solutions. Comprised of security threat researchers, engineers, and forensic specialists, the team collaborates with the world's leading threat monitoring organizations and other network and security vendors, as well as law enforcement agencies.



# FortiCare<sup>™</sup> Support Services

Our FortiCare customer support team provides global technical support for all Fortinet products. With support staff in the Americas, Europe, Middle East, and Asia, FortiCare offers services to meet the needs of enterprises of all sizes.



For more information, please refer to forti.net/fortiguard and forti.net/forticare



# **Specifications**

	FORTIGATE 100E	FORTIGATE 101E	FORTIGATE 100EF	FORTIGATE 140E-POE	
Hardware Specifications					
GE RJ45 Ports	14	14	8	14	
GE RJ45 Management/HA/DMZ Ports	1/2/1	1/2/1	1/2/1	1/1/—	
E SFP Slots	_	_	8	2	
GE RJ45 PoE/+ Ports	_	_	_	24	
E RJ45 WAN Ports	2	2	2	2	
E RJ45 or SFP Shared Ports	2	2	_	_	
ISB Port	1	1	1	1	
Console Port	1	1	1	1	
iternal Storage	—	1x 480 GB SSD	_	_	
icluded Transceivers	0	0	0	0	
ystem Performance — Enterprise Traffic Mix					
'S Throughput <sup>2</sup>	500 Mbps				
GFW Throughput <sup>2,4</sup>	360 Mbps				
hreat Protection Throughput <sup>2,5</sup>	360 Маря 250 Маря				
		200			
ystem Performance		7 1 7 1 1	4.4.Chpp		
rewall Throughput (1518 / 512 / 64 byte UDP packets)		7.4/7.4/			
rewall Latency (64 byte UDP packets)		3 μ			
rewall Throughput (Packets Per Second)		6.6 N			
oncurrent Sessions (TCP)		2 Mil			
ew Sessions/Second (TCP)		30,0			
rewall Policies	10,000				
sec VPN Throughput (512 byte) 1	4 Gbps				
ateway-to-Gateway IPsec VPN Tunnels	2,000				
lient-to-Gateway IPsec VPN Tunnels	10,000				
SL-VPN Throughput		250 N			
oncurrent SSL-VPN Users		50	0		
Recommended Maximum, Tunnel Mode)		190 N	Mono		
SL Inspection Throughput (IPS, avg. HTTPS) 3		130 N			
SL Inspection CPS (IPS, avg. HTTPS) 3		13			
SL Inspection Concurrent Session (IPS, avg. HTTPS) <sup>3</sup>		125,0			
pplication Control Throughput (HTTP 64K) <sup>2</sup>		1 Gt			
APWAP Throughput (1444 byte, UDP)		1.5 G			
rtual Domains (Default / Maximum)		10/			
laximum Number of FortiSwitches Supported		24			
laximum Number of FortiAPs (Total / Tunnel Mode)		64 /			
aximum Number of FortiTokens		5,00			
aximum Number of Registered FortiClients		60			
igh Availability Configurations	Active / Active / Passive, Clustering				
imensions					
eight x Width x Length (inches)	1.75 x 17 x 10	1.75 x 17 x 10	1.75 x 17 x 10	1.75 x 17 x 15.5	
eight x Width x Length (mm)	44.45 x 432 x 254	44.45 x 432 x 254	44.45 x 432 x 254	44.45 x 432 x 394	
orm Factor	Rack Mount, 1 RU	Rack Mount, 1 RU	Rack Mount, 1 RU	Rack Mount, 1 RU	
/eight	7.28 lbs (3.3 kg)	7.28 lbs (3.3 kg)	7.28 lbs (3.3 kg)	12.4 lbs (5.6 kg)	
nvironment					
ower Required		100-240V A0	C. 60–50 Hz		
laximum Current	100V / 1A, 240V / 0.5A	100V / 1A, 240V / 0.5A	100V / 1A. 240V / 0.5A	100V / 5A	
otal Available PoE Power Budget*			—	400 W	
ower Consumption (Average / Maximum)	23.0 W / 25.5 W	24.8 W / 27.5 W	24.4 W / 26.9 W	477.1 W / 500.0 W	
leat Dissipation	87.0 BTU/h	93.8 BTU/h	91.8 BTU/h	1706.07 BTU/h	
οαι Διοοιραίιστι	اا/۱۵ات ۱۰۰۰	90.0 DTU/II	91.0 DIO/II	1700.07	

 $<sup>^{\</sup>star}$  Maximum loading on each PoE/+ port is 30 W (802.3at).

Note: All performance values are "up to" and vary depending on system configuration.

- 1. IPsec VPN performance test uses AES256-SHA256.
- 2. IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.
- 3. SSL Inspection performance values use an average of HTTPS sessions of different cipher suites.
- 5. Threat Protection performance is measured with Firewall, IPS, Application Control and Malware Protection enabled.



# **Specifications**

	FORTIGATE 100E	FORTIGATE 101E	FORTIGATE 100EF	FORTIGATE 140E-POE	
Environment					
Operating Temperature		32-104°F (0-40°C)			
Storage Temperature		-31–158°F (-35–70°C)			
Operating Altitude	Up to 7,400 ft (2,250 m)				
Humidity		10—90% non-condensing			
Noise Level	40.4 dBA	40.4 dBA	40.4 dBA	57 dBA	
Compliance	FCC Part 15B, Class A, CE, RCM, VCCI, UL/cUL, CB, BSMI				
Certifications	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN; IPv6				

## **Order Information**

Product	SKU	Description	
FortiGate 100E	FG-100E	20x GE RJ45 ports (including 2x WAN ports, 1x DMZ port, 1x Mgmt port, 2x HA ports, 14x switch ports), 2x Shared Media pairs (including 2x GE RJ45 ports, 2x SFP slots). Maximum managed FortiAPs (Total / Tunnel) 64 / 32.	
FortiGate 101E	FG-101E	20 x GE RJ45 ports (including 2x WAN ports, 1x DMZ port, 1x Mgmt port, 2x HA ports, 14x switch ports), 2x Shared Media pairs (including 2x GE RJ45 ports, 2x SFP slots) 480 GB onboard storage. Maximum managed FortiAPs (Total / Tunnel) 64 / 32.	
FortiGate 100EF	FG-100EF	14x GE RJ45 ports (including 2x WAN ports, 1x DMZ port, 1x Mgmt port, 2x HA ports, 8x internal switch ports), 8x SFP ports.  Maximum managed FortiAPs (Total / Tunnel) 64 / 32.	
FortiGate 140E-POE	FG-140E-P0E	42x GE RJ45 ports (including 2x WAN ports, 1x Mgmt port, 1x HA port, 24x RJ45 GE PoE/PoE+ ports, 14x switch ports), 2x GE SFP DMZ slots.  Maximum managed FortiAPs (Total / Tunnel) 64 / 32.	
Optional Accessories			
External redundant AC power supply FRPS-100		External redundant AC power supply for up to 4 units: FG-100/101E, FG-300C, FG-310B, FS-348B and FS-448B.  Up to 2 units: FG-200B, FG-200D, FG-200/201E, FG-240D and FG-300D, FG-400D, FG-500D, FG-600D, FHV-500D, FDD-200B, FDD-400B, FDD-600B and FDD-800B.	
1 GE SFP LX transceiver module	FG-TRAN-LX	1 GE SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots.	
1 GE SFP RJ45 transceiver module	FG-TRAN-GC	1 GE SFP RJ45 transceiver module for all systems with SFP and SFP/SFP+slots.	
1 GE SFP SX transceiver module	FG-TRAN-SX	1 GE SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.	

## **Bundles**



FortiGuard Labs delivers a number of security intelligence services to augment the FortiGate firewall platform. You can easily optimize the protection capabilities of your FortiGate with one of these FortiGuard Bundles.

Bundles	360 Protection	Enterprise Protection	UTM	Threat Protection
FortiCare	ASE 1	24x7	24x7	24x7
FortiGuard App Control Service	•	•	•	•
FortiGuard IPS Service	•	•	•	•
FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service	•	•	•	•
FortiGuard Web Filtering Service	•	•	•	
FortiGuard Antispam Service	•	•	•	
FortiGuard Security Rating Service	•	•		
FortiGuard Industrial Service	•	•		
FortiCASB SaaS-only Service	•	•		
FortiConverter Service	•			
SD-WAN Cloud Assisted Monitoring <sup>2</sup>	•			
SD-WAN Overlay Controller VPN Service <sup>2</sup>	•			
FortiAnalyzer Cloud <sup>2</sup>	•			
FortiManager Cloud <sup>2</sup>	•			

1. 24x7 plus Advanced Services Ticket Handling 2. Available when running FortiOS 6.2



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